

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Chris Leslie

GENERAL INFORMATION:

Name:	Owensboro Grain Company, Inc.
Address:	719 East Second Street, Owensboro, KY
Date application received:	December 14, 1997
SIC/Source description:	2075/Soybean Oil Mill
EIS #:	21-059-00039
AI #:	938
Application log number:	D484/50023
Permit number:	V-08-006

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input checked="" type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM	544.02	11,483.98
PM ₁₀	269.75	8611.21
SO ₂	893.20	893.20
NO _x	291.35	291.35
CO	145.09	145.09
VOC	720.43	720.43
Hexane	459.16	459.16

SOURCE PROCESS DESCRIPTION:

Owensboro Grain Company, Inc. is a grain processing plant which produces crude vegetable oil. The source uses n-hexane to strip off the crude oil from the meal of the grain. The meal is sold after the oil has been removed and the oil is sent elsewhere to be refined into table oils, margarine, and other edible fats and oils.

EMISSION AND OPERATING CAPS DESCRIPTION:

The equipment listed under State Regulation 401 KAR 59:010, New process operations, applicable on or after July 2, 1975, have an opacity and mass emission limits resulting from the application of this regulation. As a result, the equipment controlled by 401 KAR 59:010, New process operations, will be required to use a filter or cyclone and be operated and maintained in accordance with the manufacturer's recommendations. Regulation 40 CFR 60, Subpart DD – Standards of Performance for Grain Elevators, also has opacity and emission standards.

The equipment listed under State Regulation 401 KAR 61:020, Existing process operations, applicable prior to July 2, 1975, have an opacity and mass emission limits resulting from the application of this regulation. As a result, the equipment controlled by 401 KAR 61:020, Existing process operations, will be required to use a filter and be operated and maintained in accordance with the manufacturer's recommendations. Regulation 40 CFR 60, Subpart DD – Standards of Performance for Grain Elevators, also has opacity and emission standards.

The equipment listed under State Regulation 401 KAR 63:010, Fugitive emissions, will be controlled, by utilizing wet suppression, enclosures, and/or dust collection equipment so as to keep particulate emissions from crossing the lot line of the property. Regulation 40 CFR 60, Subpart DD – Standards of Performance for Grain Elevators, also has opacity standards.

EMISSION AND OPERATING CAPS DESCRIPTION: (Continued)

The equipment listed under State Regulation 401 KAR 60:005, Standards of performance for new stationary sources, which incorporates by reference 40 CFR 60.250 (40 CFR Subpart Y), have an opacity limit resulting from the application of this regulation. The source also has a limit of 47,000 tons of coal processed in any 12 month period.

The equipment listed under State Regulation 401 KAR 59:015, New indirect heat exchangers, has emission limits on particulate matter, opacity, and sulfur dioxide. The coal burned also must have a heat content of at least 12,190 Btu/lb.

40 CFR 63, Subpart GGGG – National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production, limits the source to 0.2 gallons of hexane loss per ton of grain crushed. The source is also limited to crushing no more than 1,314,000 tons per year of grain.

The equipment listed under State Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances, limits the source to emitting potentially hazardous matter or toxic substances in such quantities or duration as to not be harmful to the health and welfare of humans, animals and plants.

OPERATIONAL FLEXIBILITY:

The source has been limited to burning no more than 47,000 tons of coal per year. The source is also limited to emitting 1092.90 tons of hexane per year. A MACT standard also limits the source to 0.2 gallons of hexane lost per ton of grain crushed. Also, the source may crush no more than 1,314,000 tons of grain per year. Monthly records to demonstrate compliance with these limitations shall be maintained monthly and on a 12 month rolling average.